Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE nder the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No 4		No	4041K-000076
First Inventor Takay		Taka	ayukı HAYASHI et al
Title Heat Exchanger		change	er
Express Mail Label No		el No	EL 835 746 231 US

(Only for n	ew nonprovisiona	al applications under 37	C F R. 1 53(b))	Express Mail	Label No	EL 835 746	231 L	s	
	APPL	ICATION ELEM	ENTS	4005	RESS TO	Assist		ommissioner for Patents Application	
	chapter 600 conc	erning utility patent appl	ication contents	ADDF	1E33 1C			DC 20231	
2.	Applicant claims See 37 CFR 1.2 Specification preferred arrange Descriptive title of Cross Reference Statement Regal Reference to sec or a computer put Background of th Brief Summary o	(Total ment set forth below) of the Invention is to Related Application ding Fed sponsored Requence listing, a table, ogram listing appendix to Invention if the Invention of the Drawings (If filed)	Pages 35] Is & D	8. Nucl (if ap a. b. Sp i. [Computer Feotide and/opticable, al. Computer ecification Sale paper Statements ACCOMI Assignme	Program (A) or Amino A I necessary Readable I Sequence L or CD-R (2 s verifying i PANYING A ent Papers §3.73(b) Si	ppend cid Se () Form Listing 2 copi identif APPL (cove	cquence Submission (CRF) (on: es); or y of above copies ICATIONS PARTS r sheet & document(s)) ent Power of	
	Claim(s) Abstract of the D	isclosure		1	•	ere is an as	-	•	
5. Oath or	rawing(s) (<i>35 t</i> Declaration Newly execute	· -	Sheets 27] Pages 5]	13.	Information Statemen	ransiation i on Disclosu t (IDS)/PT0 ry Amendn	re D-144	ment (if applicable) Copies of IDS Citations	
b. 🗌		rior application (37 C	` ''	14. 🛚				MPEP 503) mized)	
i [DELETION	ation/divisional with E OF INVENTOR(S) ant attached deleting inv	1	(Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Request and Non Publication under 35 LLS C. 122					
-	named in the part of the part	nor application, see 37 (1 33(b)	CFR `´	16. Request and Non Publication under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.					
6. 🛚 App	olication Data S	heet. See 37 CFR 1	.76	17. 🗌	Other:				
or in an App Conti Prior app For CONTIN under Box 5	olication Data Sh nuation olication informati IUATION or DIVI 5b, is considered	neet under 37 CFR 1.7 Divisional on: Examiner SIONAL APPS only: TI	76: ☐ Continuation-in-pa ————————————————————————————————————	nt (CIP) of the prior a	of p <i>Gro</i> application, t	rior application outpup / Art Unit: from which is tion and is	on No an oat	h or declaration is supplied vincorporated by reference.	
			17. CORRESPO	NDENCE A	DDRESS				
☑ Custon	ner Number or Ba		27 ert Customer No. or A	572 Stach bar code	e label here)	or 🗆	Coi	rrespondence address below	
Name	Harness, Dicl	key & Pierce, P.L.C.	F m a m						
Address	P.O. Box 828								
City	Bloomfield Hills State					Zip Code		48303	
Country	United States	of America	Telephone	248-641-1	600	Fax		248-641-0270	
Name (Pr	int/Type)	H. Keith Miller, Esc	į.	Registratio	n No. (Attor	ney/Agent)	,	22,484	
Signature		Rand	102	Date December 18, 2001				December 18, 2001	

Burden Hour Statement This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

CCC TD ANG	EE TRANSMITTAL		Complete if Known	
_		Application Number		
for FY 2	2002	Filing Date	December 18, 2001	
			Takayuki HAYASHI et al	
Patent fees are subject to	annual revision	Examiner Name		
		Group / Art Unit		
TOTAL AMOUNT OF PAYMENT	(\$) 1014	Attorney Docket No	4041K-000076	

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METHOD OF PAYMENT (check one)					<u></u>			FEE CALCULATION (continued)			
1. 🗆			uthorized to charge	3. ADD	ITIONAL	FEES					
"-	indicated fee	s and credit any o	over payments to		Large Entity		Small Entity				
Deposit Account	08-0750			Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid		
Number	00-0750			105	130	205	65	Surcharge - late filing fee or oath			
Deposit				127	50	227	25	Surcharge - late provisional filing fee or cover sheet			
Account	Harness, Dic	key & Pierce, P L	С	139	130	139	130	Non-English specification			
Name				147	2,520	147	2,520	For filing a request for reexamination			
Charge Ar Under 37	17		112	920*	112	920*	Requesting publication of SIR prior to Examiner action				
See 37 C		ity status		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action			
2. 🛛 Payme	nt Enclosed			115	110	215	55	Extension for reply within first month			
☑ Check	☐ Other	116	400	216	200	Extension for reply within second month					
	FFF (Order		117	920	217	460	Extension for reply within third month			
FEE CALCULATION 1. BASIC FILING FEE					1,440	218	720	Extension for reply within fourth month			
Large Entity	Small Entity			128	1,960	228	980	Extension for reply within fifth month			
	Fee Fee	Fee Description		119	320	219	160	Notice of Appeal			
٠٠,	Code (\$)		Fee Paid	120	320	220	160	Filing a brief in support of an appeal			
	201 370	Utility filing fee	740	121	280	221	140	Request for oral hearing			
	206 165 207 255	Design filling fee Plant filling fee		138	1,510	138	1,510	Petition to institute a public use proceeding			
108 740	208 370	Reissue filing fe	е	140	110	240	55	Petition to revive – unavoidable			
114 160 214 80 Provisional filling fee					1,280	241	640	Petition to revive - unintentional			
OUPTOTAL (A)					1,280	242	640	Utility issue fee (or reissue)			
	SUBTOTA	AL (1)	(\$) 740	143	460	243	230	Design issue fee			
2. EXTRA CLAIN	/ FEES			144	620	244	310	Plant issue fee			
•			ee from Fee	122	130	122	130	Petitions to the Commissioner			
Total Claims 33	-20 ** =	Claims b	elow Paid 18 = 234	123	50	123	50	Processing fee under 37 CFR 1 17 (q)			
Independent Claims 1	-3 ** =	0 x	= 0	126	180	126	180	Submission of Information Disclosure Stmt			
Multiple Dependent		x [= 0	581	40	581	40	Recording each patent assignment per property (times number of properties)	40		
	Small Enti	•		146	740	246	370	Filing a submission after final rejection (37 CFR § 1 129(a))			
Fee Fee Code (\$)	Fee Fee Code (\$)	ree Descript		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))			
103 18 102 84	203 9	Claims in excess of 20		179	740	279	370				
102 84 104 280	202 42 204 140		claims in excess of 3	l '	-			Request for Continued Examination (RCE)			
109 84	209 42	, ,	ndent claim, if not paid dependent claims over t	169	169 900 169 900 Request for expedited examination of a design application						
110 18	210 9		aims in excess of 20 and								
	5	SUBTOTAL (2)	(\$) 234	Other fe	e (specify	′)	-				
	•	()	(1) = 0	*Reduc	ed by Bas	sic Filing	Fee Pa	aid SUBTOTAL (3) (\$) 40			
**or number previou	usly paid, if greate	er, For Reissues, se	e above								

SUBMITTED BY						
Name (Print/Type)	H. Keith Miller, Esq. // Registration No. Attorney/Agent)	22,484	Telephone	248-641-1600		
Signature	RIBAR		Date	December 18, 2001		